

NPDES FACILITY VERIFICATION OF INSPECTION

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State Form 47989 (R5 / 4-05)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

P-file

	FACILITY AND INSPE	CTION INFORMATION					
NPDES permit number IN 0000108	= State/Federal						
This is to verify that on	ーのぶ (month, day, year) an inspecental Management, Office of Water Qua	ction of the specified facility was conductility.	sted by the undersigned representative				
TYPE OF INSPECTION: Compliance Evaluation Inspection Reconnaissance Inspection (R) Industrial User Inspection (I) Sanitary Sewer Overflow (V)	on (C)	Multimedia Screening Evaluation (M) Combined Sewer Overflow inspection (Y) Compliance Sampling Inspection (S) Other					
Name of facility inspected RP Do Luck No.	AH AMERICA, INC	Receiving waters / POTW	Expiration date of permit				
Location of facility inspected (number, s 2815 Indels Blvd Whiting In 4	treet, city, county)	IHSC - Lake Beorge Branch	2-28-95				
Name(s) of on-site representatives:	DSIT OTTO LAIGEO	Title(s):	Phone: (719) 473-3393				
Rose Herrera		ENVIONMENTAL ENGR	Fax: () Phone: () Fax: ()				
Certified operator	Number 14-(18	Class	Full time				
DAVID OLEM	*Effective date of renewal	Date of expiration 6-30-06	Hours per week				
Name of responsible official DANTEL J. SAJ	Vous SKi	Title: Business unit Leader	Phone: (Z19) 473 - 3179 Fax: ()				
Address of responsible official (number,			Facility design flow: 🏂				
(same)	AREAS EVALUATED I	Contacted	001-17M6D 002-120A				
(S = Satisf		ctory, N = Not Evaluated, NA = Not A	Applicable)				
Receiving Waters Appearance Effluent Appearance Permit	Facility / Site Operation Maintenance	Self-Monitoring Program Flow Measurement Laboratory	MA Compliance Schedules Pretreatment Effluent Limits				
NA CSO / SSO (Sewer Overflow)	5 Sludge Disposal	S Records / Reports	Other:				
* These findings are considered prelimin	PRELIMINARY INSPECTION arv and include specific matters discove		nated agent of the department believes				
* These findings are considered preliminary and include specific matters discovered during the inspection that the designated agent of the department believes may be a violation of law or a permit issued by the department. SINGLE MEDIA INSPECTION: No violations were discovered with respect to the particular items observed during the inspection. (5) Potential violations were discovered but corrected during the inspection. (4) Potential violations were discovered and require a submittal and/or follow-up inspection. (2) Potential violations were observed and may be referred to our Office of Enforcement. (1) Additional information/review is required to evaluate overall compliance. Other							
Comments regarding unsatisfactory ration							
		 					
							
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Page 1 of ______

Additional comments regarding unsatisfactory ratings - Including rule or perm	it citation(s):		
		· · · . 	
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		- 	·
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Comments regarding marginal ratings - Conclusions and recommendations:			
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and outfall ood and oof w Mirhigan was clear with m	NOT NOT O	3 ChAISing	· Lulce
Mahigan was clear with me	o oil sheel	V	
B All largarent was in of	restion l	xcept for	Preventative
Mair GerANNE. O Studge is being affacted be manifests. O Flow in on New from meter should be installed	Cert off	THE LE STE	and cel
Ch- 1 1 a South	'_24_1011)	se to our fl	isa see
affacted by Man Fests (D) How I	neasurement o	for offall o	Of is calculate
effective. Meter should be installed	when The N	ier xirbes po	mis becomes
MULTI-MEDIA SCREENING (please note that a multi-media screening is not Multi-media screening not conducted. No violations were observed during the limited multi-media screening of the limited mul	a comprehensive evaluation	on of the compliance status	of the facility)
Potential problems or potential violations were discovered but correcte Potential problems or potential violations were discovered and will be re-	d during the inspection.		
	igation and response.		
Pollution prevention is the preferred means of environmental protection in Indi	PREVENTION	provention is to promote ab	
commercial operation, especially manufacturing processes, so that less enviorn program is entirely voluntary. Would your company like to be contacted by IDI	mental wastes are generat EM's Office of Pollution Pr	ed. Your participation in Indi evention and Technical Assi	ana's pollution prevention stance?
Menculary Yes No If you have any pollution prevention questions, you may contact our Office of I (800) 988-7901 or visit their web site at http://www.in.gov/idem/oppta.	Pollution Prevention and T	echnical Assistance at (317)) 232-8172 or toll-free
SUMMARY AND CORR	ECTION INFORMATION	N	
A summary of violations and concerns noted during the inspection were verba The facility should correct any deficiencies noted as soon as possible. Correct	lly communicated to the u tions made and verified di	ndersigned representative our uring the inspection may stil	luring the inspection.
Written inspection summary will be provided within 45 days.	Written report possible subsequent review	rovided at the conclusion of ew, any changes to this repor will be sent to the subject fa	the inspection. If upon t are deemed necessary,
IDEM REPRESENTATIVE:		_	_
Mithael Kuss McEalth	742 - 918	Date (month,day,year)	In: 8:56 A Out: 2:50 P
OWNER / AGENT REPRESENTATIVE / TITLE:			
Printed name Signature	Title CNVil.	Telephone number	Date (month, day, year)
FOR IDEM INTERNAL USE:	ENGINEER	219473-3393	12/12/05
Section Chief or Regional Deputy Prector	Date (month, day, year)	l	
a Kh telasou	12/22/05	☐ Follow up ☐ NPDES permits	☐ Enforcement ☐ Other
Distribution: White - Public file; Canary - Site copy Page 2	of	 	

State Form 44229(R/4-97) PAGE <u>3</u> OF <u>3</u> **NPDES Facility Inspection Report IDEM** Comments and/or Recommendations FACILITY:
BE NOOTH AMENIA NPDES PERMIT #: YR/MO/DAY: 05-12-12 TH 0000108 @ @ reviewed Las Qc/Qc Plus shock shocks all ok @ records satistactory reviewed omas, c.o.c. gample cogs ek. @ No violations of Numeric effluent Similations in 2005 Through November.

Inspected by:

Mithael KUSS

Received by:

LOSE HERRERA

12-12-05

NPDES Facility Compliance Evaluation Checklist Revised 11-17-05 NPDES Permit #: Facility Name: Month/Day/Year: 1Z-1Z-05

All evaluations indicated on this form are based upon the Inspector's observations at the time of the inspection.

A. Receiving Waters Appearance

	>			1. The	receiving stream is visibly:
Yes	Z No	N/E	N/A	a.	Free of excessive deposits of settled solids.
Yes	No	N/E	N/A	b.	Free of excessive floating debris, oil, scum, or foam.

B. Effluent Appearance

	รา			1. At th	e time of the inspection, effluent is essentially:	
Yes	✓ No	N/E	N/A	a.	Free of excessive solids.	٧
Yes) No	N/E	N/A	b.	Free of excessive floating debris, oil, scum, or foam.	

C. Permit

$\overline{}$					
es)	No	N/E	N/A	1.	Expired Permit has been administratively extended.
	No	N/E	N/A	2.	The permit has been properly transferred. ONKOWN
es>	No	N/E	N/A	3.	Notification was given to IDEM of significant alterations or additions to the permitted facility.
ES)	No	N/E	N/A	4.	All discharges are permitted.
ēs)	No	N/E	N/A	5.	Receiving waters are accurately described in permit.
	es	es No es No es No	es No N/E No N/E No N/E	es No N/E N/A No N/E N/A No N/E N/A	es No N/E N/A 2. No N/E N/A 3. No N/E N/A 4.

D. CSO/SSO (Sewer Overflow)

Yes	No	N/E	N/A I	. CSO's are regularly monitored, and results are reported as required.
Yes	No		N/A)2	,
Yes	No	N/E	N/A	. Facility has met SSO reporting requirements.
Yes	No	N/E (N/A 2	. Facility has mitigated adverse impacts.

E. Facility/Site

	~	A				Two feed sources but no
~	(Yes		N/E	N/A	1.	Facility has standby power or equivalent provision. SAND by fower IF both Feeds Ar
y	(Yes)	No	N/E	NA	2.	An adequate alarm or notification system for power or equipment failure is available.
	Yes	No	N/E	(M/A)	3.	Treatment system bypasses noted during the inspection are authorized by the permit.
	Yes	No	N/E	N/A	4.	Treatment system bypasses noted during the inspection have been reported as required.
	(Yes) (Yes)	No	N/E	N/A	5.	Facility grounds are maintained in a manner which allows adequate access and/or view of all units.
	(Yes)	No	N/E	N/A	6.	Clear access is maintained to outfall(s) at the receiving stream.

F. Operation

1				1. All facilities and systems necessary for achieving compliance with the terms and conditions of the
				permit are operated in a manner consistent with the following:
Yes (Yes)	No	N/E	N/A	a. All facilities and systems are operated efficiently.
(Yes)	No	N/E	N/A	b. An adequate, qualified operating staff is provided to carry out the operation of the facility.
es) No	N/E	N/A	2. A written Operation Plan has been established, including guidelines for each unit process, process control testing, sludge management, and wet weather operation (if needed).
Yes	No	N/E	N/A	3. Sufficient sludge is wasted from treatment system at proper time intervals to maintain process efficiency.

G. Maintenance

Yes	No	N/E	N/A	1.	A maintenance record system has been established and includes:
Nex.	No	N/E	N/A		a. Maintenance history.
	No	N/E	N/A		b. Repair history.
0	No	N/E	N/A	2.	A preventative maintenance (PM) plan has been established and includes:
Y S	No	N/E	N/A		a. Instruction files for PM for all equipment.
Year	No	N/E	N/A		b. Schedules for all PM on all equipment.
Yes	No	N/E	N/A		b. Spare parts and supplies inventory.
Yes	No	N/E		3.	Maintenance of equipment that could result in degradation of effluent quality is scheduled during non-critical water quality periods.
Yes	No	N/E	MA	4.	Lift station inspections are adequate.
Yes	No	N/E (MX	5.	Lift station cleaning and maintenance procedures are adequate.
Yes	No	N/E	(VA)	6.	Collection system maintenance is adequate.

H. Sludge Disposal

					
Yes Yes	No				Sufficient Sludge is disposed of to maintain overall efficiency of facility.
Ýes	No	N/E	N/A	2.	Sludges, screenings, and slurries are properly handled and disposed of.
					STILL OR sent off Sife for incineration.

I. Self-Monitoring Program

No N/E N/A 1. Samples are taken at pre-designated locations. No N/E N/A 2. Samples are representative. No N/E N/A 3. Flow proportioned samples are obtained where needed. No N/E N/A 4. Facility conducts sampling and analyses on parameters and wastestreams specified in the perm No N/E N/A 5. Facility conducts sampling and analyses at frequencies specified in the permit. 6. Sample collection procedures include: Samples are refrigerated during compositing. No N/E N/A a. Samples are refrigerated during compositing. No N/E N/A b. Proper preservation techniques are used. C. Containers and holding times conform to 40 CFR 136.3. 7. Automatic sampling procedures include: No N/E N/A a. Sample intake tubing is placed in a well-mixed representative location. No N/E N/A b. Proper tubing is used for parameters analyzed. No N/E N/A c. Proper composite sample container is used for parameters analyzed. No N/E N/A 8. Sampling and analysis data include: No N/E N/A a. Dates, times, and location of sampling.	it.
No N/E N/A 3. Flow proportioned samples are obtained where needed. No N/E N/A 4. Facility conducts sampling and analyses on parameters and wastestreams specified in the perm No N/E N/A 5. Facility conducts sampling and analyses at frequencies specified in the permit. 6. Sample collection procedures include: a. Samples are refrigerated during compositing. b. Proper preservation techniques are used. c. Containers and holding times conform to 40 CFR 136.3. 7. Automatic sampling procedures include: a. Sample intake tubing is placed in a well-mixed representative location. b. Proper tubing is used for parameters analyzed. c. Proper composite sample container is used for parameters analyzed.	it.
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7. Automatic sampling procedures include: a. Sample intake tubing is placed in a well-mixed representative location. No N/E N/A b. Proper tubing is used for parameters analyzed. C. Proper composite sample container is used for parameters analyzed.	
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No N/E N/A b. Proper tubing is used for parameters analyzed. No N/E N/A c. Proper composite sample container is used for parameters analyzed.	
No N/E N/A b. Proper tubing is used for parameters analyzed. No N/E N/A c. Proper composite sample container is used for parameters analyzed. No N/E N/A d. Proper refrigeration of composite container is documented. No N/E N/A 8. Sampling and analysis data include:	
No N/E N/A c. Proper composite sample container is used for parameters analyzed. No N/E N/A d. Proper refrigeration of composite container is documented. No N/E N/A 8. Sampling and analysis data include:	
Yes No N/E N/A d. Proper refrigeration of composite container is documented. Yes No N/E N/A 8. Sampling and analysis data include:	
No N/E N/A 8. Sampling and analysis data include:	
Med No N/E N/A a. Dates, times, and location of sampling.	
No N/E N/A b. Name of individual performing sampling. No N/E N/A c. Analytical methods and techniques.	
No N/E N/A c. Analytical methods and techniques.	
Mee No N/E N/A d. Results of analyses and calibration.	
No N/E N/A e. Dates of analyses.	
No N/E N/A f. Name of person performing analyses.	
No N/E N/A g. Instantaneous flow for flow weighted aliquots.	

J. Flow Measurement

_					
(Y'e	No 😪	N/E	N/A	1.	Primary device(s) appears to be properly installed and maintained.
(Y)	No No	N/E	N/A	2.	Secondary instrument(s) appears to be properly installed, calibrated, operated, and maintained.
V e	No No	N/E	N/A	3.	Flow is properly monitored as required by the permit.
Y) No	N/E	N/A	4.	Flow charts and records are available for review.
	No	N/E	N/A	5.	Calibration records are available for review.
Ye	8 No	N/E	N/A	6.	Effluent flow is used in calculating effluent loadings.

K. Laboratory

Z) except outfall ook; flow's calculated from several influe

No N/E N/A 1. Written laboratory QA/QC manual available.

New from neser to be instance with new NPDE

K. Laboratory

Yes	No	N/E	N/A	2. Chain-of-Custody procedures followed.
COS	No	N/E	N/A	3. Samples are properly stored.
(Yes	No	N/E	N/A	4. Approved analytical methods used as required by permit.
Yes	No	N/E	WA	5. If alternate analytical methods are used, proper written approval has been obtained.
Yes	No	(N/E)	N/A	6. Calibration and maintenance of instruments and equipment is satisfactory.
Kes.	No	N/E	N/A	7. QA procedures are adequate.
YEZ	No	N/E	N/A	8. QC procedures are adequate.
Yes/	No	N/E	N/A	9. Clean and orderly work area is available to help prevent contamination.
No.	No	N/E	N/A	10. Standards and appropriate blanks are available to perform daily check procedures.
Yes	No	N/E	N/A	11. Glassware properly cleaned.
Yes	No	N/E	N/A	12. Precision and accuracy of the analyses are sufficient.
Yes	No	N/E	N/A	13. Use correct formulas to calculate final results.
(Yes)	No	N/E	N/A	14. Laboratory data reported in proper form and units.
				15. Co mmercial Laboratory Used: S/MA 7 (TAC)
				Laboratory Name: Microbac + 15
				Laboratory Address: 250 W. BYD Or, METAVINE 46410
				Laboratory Contact: KAREN ZEOWICOSKi
				Laboratory Phone: 219-769-837B

L. Records/Reports

Yes	No	N/E	N/A	1.	Records and reports are maintained on site as required by permit.				
Yes	No	N/E	N/A	2.	Information is maintained on site for 3 years.				
(Yes)	No.	N/E	N/A	3	Results of monitoring (using approved methods) performed more frequently than required by the				
	110	14/12	14/7		permit are reported.				
Yes	No	N/E	N/A	4.	DMRs, MROs or MMRs, and CSODMR's are completed properly and accurately.				
Yes	No	N/E	N/A		a. "No Ex" column is accurate.				
Ye)	No	N/E	N/A		b. Calculations are correct (including loadings, averages, etc.).				
Yes _	No	N/E	N/A		c. Signatory requirements are met.				
(Tes	No	N/E	N/A		d. Reports are prepared by or under the direction of a certified operator.				
Yes	No	N/E	N/A	6.	Monitoring records are adequate and include:				
(es)	No	N/E	N/A		a. Lab bench sheets.				
Xes	No	N/E	N/A		b. Sample logs.				
X egy	No	N/E	N/A		c. Flow meter strip or circle charts and calibration records.				
Yes)	No	N/E	N/A		d. Laboratory instrument calibration and maintenance records.				
				7.	Pretreatment records include:				
Yes	No	N/E	(N/A)		a. Inventory of Industrial Waste Contributors.				
Yes	No	N/E	NA		b. Monitoring data.				
Yes	No	N/E	N/A)		c. Inspection reports.				
Yes	No	N/E	MA		d. Compliance status records.				
Yes	No	N/E	NTA		e. Enforcement actions.				

M. Compliance Schedules

Yes	No	N/E (N/A	1.	Monitoring milestones in the Schedule of Compliance have been met.
Yes	No	N/E	(N/A)	2.	Reporting milestones in the Schedule of Compliance have been met.
			$\overline{}$		

N. Pretreatment

				`	
Yes	No.		N/A	1.	Industrial or commercial discharges are regulated as required by the permit.
Yes	No	N/E	MAX	2.	The permittee has developed a Sewer Use Ordinance.
Yes	No	N/E	MA	3.	The permittee enforces the Sewer Use Ordinance.
Yes	No	N/E	N/A	4.	The facility operates without significant interference from industrial or commercial discharges.
					, <u>, , , , , , , , , , , , , , , , , , </u>

O. Summary of Monitoring Records Review.

MO/YR	Effluen Viola		Date	s)	Туре	Outfall	Para	meter	Repo Val		Peri Lin	
<u> </u>	Yes	No			7,5							<u> </u>
/	Yes	No										
/	Yes	No										
/	Yes	No		50.	0 12	a CFF	taclas	ed				
7	Yes	No										
	Yes	No			SIM	AANT CHOO	DF					
/	Yes	No					Y					
/	Yes	No			110	(atro	115					
/	Yes	No										
	Yes	No						•				
/	Yes	No		NO	WP	2000		120	41	110	tobe	2/2
	Yes	No			-		 				, , ,	
/	Yes	No										
	Yes	No				,						
	Yes	No										
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/	Yes	No					<u> </u>					
	Yes	No										
ZOc otal Permit				7	∕ \) ••	94 C			I			

DMx – Daily Maximum DMn – Daily Minimum MA – Monthly Average

% - Percent Removal

MxWA – Maximum Weekly Average

Comme	ents Regarding Shade	ed YES Evaluations	
BP Submitte Copplication information On on of facilitate	ed an updated no in 2007 and to spen-ough soing basis in the NPDES pern	IPOES PERMIT MENERO NO they are Submits The Dustrice permits s ar effort to Help wit the Renewal.	el Gras Section
B) Al identi unpermitted The inspection	field in the NA ortfalls were	PES NO Additional	
(c) Alanns, li	ght towns for neters and fire	A wide Anray	

IDEM WASTEWATER PRE-INSPECTION CHECKLIST

Name and Location of Facility to be Inspected:	NPDES Permit #:	GPS Coordinates Recorded:	Date to be Inspected:	Inspector:
Name: BP North America				·
Town/City: Whiting	IN0000108	NO	12-12-05	MPK
County: Lake				

	City: Whiting y: Lake	IN0000108	NO	12-12-05		1	МРК				
1.	REVIEW RELEVANT PROGRAM	PERMIT AND PER	MIT APPLICATION	S CHI	CK ONE:		***************************************				
1 14				YES		N/A	N/E				
IF NO, N/A, N/E:	Provide explanation or descripti	on why:									
	Info Source/ Location/Date Reviewed Inspector Notations Pertinent to Upcoming Inspection:										
IF YES:	Files										
2.	REVIEW PRIOR INSPECTION HISTORY & REPORTS RELEVANT TO THE CHECK ONE:										
	PROGRAM INSPECTION, PARTIUNRESOLVED ISSUES.	YES) NO	N/A	N/E						
IF NO, N/A, N/E:	Explanation:				•						
IF	Info Source/Location/Date Reviewed										
YES:	Files		•								
3.	REVIEW PRIOR COMPLIANCE				CK ONE:						
	RELEVANT TO PROGRAM INSP AND MINOR VIOLATIONS, FOR			SS YES	NO	(N/A)	N/E				
IF NO, N/A, N/E:	Explanation: N/A										
112	Info Source/Location/Date Reviewe	d Inspector Notatio	ns Pertinent to Upcor	ming Inspec	tion:						
IF YES:											
	REVIEW FACILITY RESPONSES	TO ALL OF THE ALL	ROVE	Chi	CK ONE:						
4.	REVIEW FACILITY RESPONSES	YES	NO NO	(N/A)	N/E						
IF NO, N/A, N/E:	Explanation: N/A			1							
l IE	Info Source/Location/Date Reviewe	d Inspector Notatio	ons Pertinent to Upcor	ming Inspec	tion:						
IF YES:											

5.	REVIEW FACILITY RECORDS RE	PORTS, SELF-MONITORING DATA	CHEC	K ONE:		
.	CURRENTLY AVAILABLE.			(NO)	N/A	N/E
IF NO, N/A, N/E:	Explanation: Information is not readily available				•	
	Info Source/Location/Date Reviewed	Inspector Notations Pertinent to Upcoming	Inspecti	on:		
IF YES:	·					
	REVIEW MAPS SHOWING FACILI	TV I AVOUT AND WASTE	CHEC	K ONE:		
6.	MANAGEMENT/ DISCHARGE SITES.	IT LATOUT AND WASIE	YES	NO	N/A	N/E
IF	Explanation:					
NO, N/A, N/E:	Not Necessary					
THE .	Info Source/Location/Date Reviewed	Inspector Notations Pertinent to Upcoming	Inspecti	on:		
IF YES:						
7.	REVIEW RECORDS OF CITIZEN'S		K ONE:	1	T =	
			YES	(NO)	N/A	N/E
IF NO, N/A, N/E:	Explanation: None, in 2005 that are available.		•	·-		
IVE.	Info Source/Location/Date Reviewed	Inspector Notations Pertinent to Upcoming	Inspection	on:		
IF YES:	·			•		
	REVIEW ANY PROCESS INFORMA	TION	CHEC	K ONE:		
8.	REVIEW ANT PROCESS INFORMA	ATION.			1	1
			YES	(NO)	N/A	N/E
IF NO,	Explanation:	,				
N/A,	No Time allotted					
N/E:	No Time anoued					
	Info Source/Location/Date Reviewed	Inspector Notations Pertinent to Upcoming	Inspection	on:		
IF YES:	Thro Source Location Date News	Zinopottor riotations recuired a pecining		Y • • • • • • • • • • • • • • • • • • •		
	DEVIEW AND DETERMINE ADDITE	CARLE DECHIDEMENTS	CHEC	K ONE:		
9.	REVIEW AND DETERMINE APPLIC	CADLE REQUIREMENTS.	YES	(NO)	N/A	N/E
IF	Explanation:		1 1 200	1.0	1 17/11	1145
NO,	and the state of t					
N/A, N/E:	No Time allotted					
	Info Source/Location/Date Reviewed	Inspector Notations Pertinent to Upcoming	Inspection	on:		

ADDITIONAL COMMENTS:

IF YES:

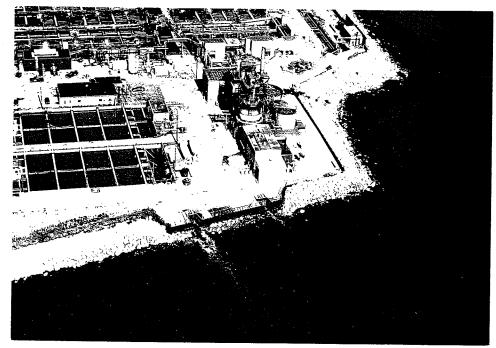


Photo #1 3.2.39 Amore vice cotfalls

OCZ (10++) Gar OCI (101241)

Photo taken by K+1, 10 MEZ will's

approx 10000 Am

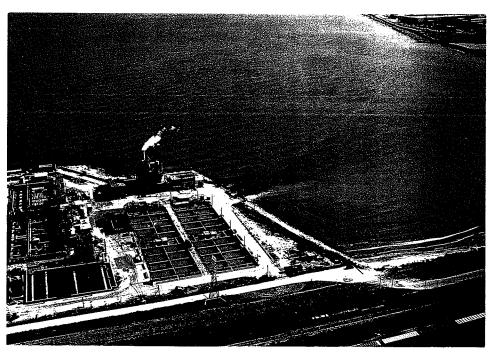


Photo HT- 9-9-99 AMECO OF and COVE AND OF LANG MICHIGAN PUCKE FEREN BY MAJON MEGANES APPEXE 10:00 AM

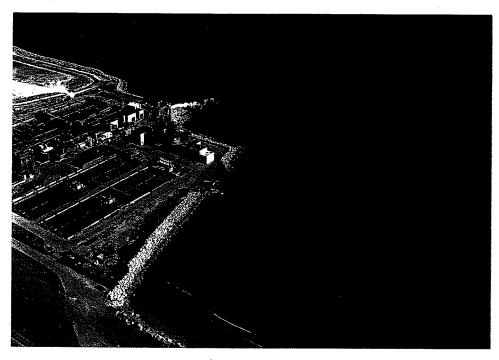


Photo #2 9-9-99- AMOCO O'L and Cove ABA OF Lace Michigan Photo taken by NAINH Mc Cullers Approx: 10:00 Am.

TREATMENT FACILITY CLASSIFICATION

The discharger has a Class D industrial wastewater treatment plant, classified in accordance with 327 IAC 8-12, Classification of Water and Wastewater Treatment Plants.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge from Outfall 001. Such discharge shall be limited and monitored by the permittee as specified below:

Discharge Limitations

				Austitu	or Concentr	ation [1]	Monitoring Re	quirements
<u>Parameter</u>	Quantity Monthly Average	or Loading Daily <u>Maximum</u>	<u>Units</u>	Monthly Average	Daily <u>Maximum</u>	<u>Units</u>	Measurement Frequency	Sample Type
Flow TBOD5 TSS COD Oil and Grease Phenolics (4AAP) Ammonia as N Sulfide Total Chromium[4] Hex. Chromium[4] Fecal Coliform[5] Residual Chlorine[2378-CDD [6] 2378-CDF [6] Total Selenium	Report 4161 3646 30323 1368 20.33 1030 23.1 23.9 2.01 — 5] — —	Report[2] 8164 5694 58427 2600 73.01 2060 51.4 68.53 4.48 — — — Report	MGD 1bs/day	Report	Report	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Daily 5 X Weekly 1 X Weekly 1 X Weekly 1 X Weekly 1 X Weekly 2 X Weekly 4 X Yearly 4 X Yearly 2 X Yearly	Continuous 24 Hr. Comp. 24 Hr. Comp. 24 Hr. Comp. Grab [3] 24 Hr. Comp. 4 Hr. Comp. 5 Grab 6 Grab 24 Hr. Comp. 24 Hr. Comp. 24 Hr. Comp.

- [1] The permittee shall begin reporting the effluent concentration of the parameters listed above which require reporting only as soon as possible but no later than three months after the effective date of the permit.
- [2] The daily maximum flow shall be reported as the highest total daily flow for each monthly reporting period.
- [3] Three Grabs Per 24 Hours (Oil & Grease)—Three individual samples taken at equally spaced time intervals during a 24-hour period. Each sample is individually analyzed and the arithmetic mean of the concentrations reported as the value for the 24-hour period. The number of grab samples taken in a 24-hour period may be reduced to one per day after a six month period after the effective date of the permit, if the effluent shows no violations of the oil and grease limitations listed above. At the end of the six month sampling period, the permittee may request, in writing, a review of these requirements. Upon review by the IDEM, the permit may be modified, after public notice and opportunity for hearing, to reduce the number of grab samples taken in a 24-hour period..

رجع

- [4] If test results from the analysis performed for total chromium reveal that the concentration is less than the limitations for hexavalent chromium, then the test for hexavalent chromium may be eliminated and reported as the same concentration as total chromium for that day.
- [5] Fecal coliform and residual chlorine are limited for the period from April 1 through October 31, annually, and only when the refinery sanitary sewers are discharging to the AMOGO WMTP. The monthly average for fecal coliform is calculated as a geometric mean. Residual chlorine testing of Outfall No. 001 is required only when directly chlorinating the outfall.
- [6] The permittee shall sample the effluent once every three months for the presence of 2378 substituted chlorinated dibenzodioxin (CDD) and chlorinated dibenzofuran (CDF) isomers using U.S. EPA method 1613 with a chlorinated dibenzofuran (as low as reasonably achievable but not to exceed target detection limit as low as reasonably achievable but not to exceed the minimum levels listed in Table 2 of method 1613 for a period of three the minimum levels listed in Table 2 of method 1613 for a period of three years after the effective date of the permit. The permittee must develop years after the effective date of the permit. The permittee must develop and implement a plan to quantify and reduce the potential for the discharge of CDDs and CDFs in accordance with the schedule of compliance in Part I. D. of this permit.
 - a. The pH shall not be less than 6.5 nor greater than 9.0. The pH shall be monitored as follows: by a grab sample taken three times each week.
 - b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.
 - c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.
 - d. The discharge shall be free of substances that are in amounts sufficient to be unsightly or deleterious or which produce color, odor, or other conditions apart from that normally produced by a properly functioning WWTP.
 - e. Samples taken in compliance with the monitoring requirements above shall be taken at a point representative of the discharge but prior to entry into Lake Michigan.

2. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge from Outfall 002. Such discharge shall be limited and monitored by the permittee as specified below:

Discharge Limitations

	Quantity	or Loadin	g	Quality	or Concent	ration	Monitoring Requirements		
	Monthly	Daily		Monthly	Daily		Measurement	Sample	
<u>Parameter</u>	Average	<u>Maximum</u>	<u>Units</u>	Average	<u>Maximum</u>	Units	Frequency	Type	
Flow	Report	Report	MGD	-			Daily	Continuous	
TOC (Intake)	<u></u>			Report	Report	mg/1	5 X Weekly	Grab	
TOC (Discharge)				Report	Report	mg/1	5 X Weekly	Grab	
TOC (Net)	_			Report	5.0 [1]	mg/1	5 X Weekly	Grab	
Total Residual									
Chlorine		-		Report	0.05	mg/1	1 X Weekly	Grab	
Oil and Grease(Inta	ıke)—			Report	Report	mg/1	3 X Weekly	Grab	
Oil and Grease								•	
(Discharge)				Report	Report	mg/1	3 X Weekly	Grab	
Oil and Grease(Net)) 			Report	5.0 [1]	mg/1	3 X Weekly	Grab	
Temperature				Report	[2] B	TU/Hour	5 X Weekly	Conținuous	

Outfall No. 002 is limited solely to non-contact cooling water, free from process and other wastewater discharges except as provided in Part III.1. of the permit. In the event that water treatment additives, other than chlorine, are to be used in the waters contributing to this discharge, the permittee shall apply to the IDEM for approval of the use of the new additive.

- [1] Total Organic Carbon (TOC) and Oil and Grease shall be limited on a net basis. The net result shall be calculated by subtracting the concentration value of the intake water from the concentration value of the gross discharge.
- [2] The net result shall be calculated by subtracting the temperature value of the intake water from the temperature value of the gross discharge. The net heat discharged shall be maintained at or below the following limits:
 - 2.0 X 10⁹ BTU/Hour maximum daily average 1.7 X 10⁹ BTU/Hour maximum monthly average
 - a. The pH shall not be less than 7.0 nor greater than 9.0. The pH shall be monitored as follows: by a grab sample taken three times each week.
 - b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.
 - c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

- d. The discharge shall be free of substances that are in amounts sufficient to be unsightly or deleterious or which produce color, odor, or other conditions in such a degree as to create a nuisance.
- e. Samples taken in compliance with the monitoring requirements above shall be taken at a point representative of the discharge but prior to entry into Lake Michigan.





CERTIFIED MAIL RETURN RECEIPT REQUESTED

November 10, 1999

Mr. Michael Kuss Indiana Department of Environmental Management Office of Water Management 504 North Broadway Suite 418 Gary, IN 46402-1921

Regarding NPDES Facility Inspection Report

BP Amoco would like to respond to the IDEM NPDES Facility Inspection Report dated September 9, 1999, for Permit IN0000108. In this report, effluent and receiving waters were evaluated as "marginal" compliance. We disagree with this characterization and respectfully request that this Inspection Report be amended to reflect the following information.

BP Amoco Oil
Whiting Refinery

219-473-7700

2815 Indianapolis Boulevard Post Office Box 710 Whiting, Indiana 46394-0710

Effluent quality for September was excellent, especially with respect to total suspended solids (TSS) and oil and grease (O&G), which are the parameters that might have an effect on visual quality for Outfall 001. The attached data substantiates excellent effluent quality and proper wastewater treatment plant operation at the time of the inspection. The effluent, although slightly discolored due to low turbidity, was readily complying with discharge limits. When viewing the water column immediately adjacent to the outfall from a height of several hundred feet, the effect of low turbidity on transparency of the water column is enhanced, and thus the "brown" appearance.

We also disagree that a potential sheen existed adjacent to the outfall 001 area. Possible reasons for this visual effect include mixing effects and meteorological conditions. There was no substantiation that what was observed from the helicopter was a sheen; and, all effluent quality data for both outfalls would not support the presence of a sheen.

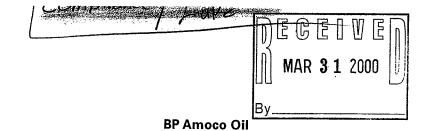
Lastly, we disagree with the characterization of outfall 002 as being "discolored". What was most likely being observed was air bubble entrainment created by boulders in the outfall area which result in a rapid-like turbulent mixing. This effect has been compounded this summer due to the very low lake levels.

Thank you for your attention in reviewing this information and including it in the record of the aforementioned NPDES Inspection Report. Please call me (219-473-3287) if you have any questions.

Stephen D. Simko

Environmental Superintendent Health, Safety and Environment

•					
Sep-99	Outfal TS		Outfa O&		Outfall 002 OUT-O&G
DATE	mg/l	LB/D	mg/l	LB/D	mg/l
1	12.8	2060	4.1	660	<0.3
2	18.0	2762	4.1	629	****
3			4.4	576	<0.3
4					
5	10.8	1450			enterior ex
6	10.0	1368	2.4	328	< 0.3
7	9.6	1265	2.3	303	
8	9.6	1033	2.0	215	< 0.3
9	12.4	1758	2.2	312	
10			1.9	271	<0.3
11					
12	8.2	1156			B0 100 400
13	7.6	1059	1.6	223	< 0.3
14	4.4	624	1.0	142	
15	5.2	776	0.9	134	<0.3
16	6.0	946	1.0	158	
17			1.5	223	0.4
18	·· • • • • • •				
19	5.6	752			
20	6.4	870	1.6	218	< 0.3
21	10.2	1361	1.7	227	
22	10.0	1326	4.0	530	<0.3
23	14.8	1814	4.2	515	
24			3.9	514	<0.3
25					
26	14.4	1922			
27	11.6	1741	2.0	300	< 0.3
28	9.2	1404	2.5	382	10.10 44
29	11.6	1867	1.4	225	0.4
30	4.4	675	0.7	107	
AVERAGE	9.7	1363	2.3	327	<0.3
HIGHEST VAL		2762	4.4	660	0.4
	monthly avg limit:	3646		1368	- -
	daily max limit:	5694		2600	5. °





Whiting Refinery
2815 Indianapolis Boulevard
Post Office Box 710
Whiting, Indiana 46394-0710
219-473-7700

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 28, 2000

Mr. Terry Ressler
Water Enforcement Section
Office of Enforcement
Indiana Department of Environmental Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

Dear Mr. Ressler:

Per my phone messages to you on March 23, 2000, this memo documents our notification of the following as required by our NPDES permit (IN0000108) in section III.1. At approximately 10:30 a.m. March 23, 2000, the noncontact cooling water supply to the refinery's 11C Pipestill was interrupted. In order to prevent equipment damage, firewater was substituted for noncontact cooling purposes as allowed in our NPDES permit (section III.1). The substitution only occurred for 10 minutes; thus, at approximately 10:40 a.m. March 23, 2000, the use of firewater was discontinued.

Please call me at 219-473-3740 if you have any questions.

Peter B Bronis Knry

Sincerely,

Peter B. Beronio

Health, Safety and Environment

Environmental Engineer

State Form 47989(R/4-97)					,
IDEM		CE OF WATER I	ONMENTAL MAI MANAGEMENT pection Repo		100 NORTH SENATE AVENUE P. O. BOX 6015 INDIANAPOLIS, IN 46206-6015
NPDES PERMIT #:	YR/MO/DAY:	INSPECTION	INSPECTOR:		
IN 0000108	99-09-08	TYPE:	.5	FACILITY TYPE Co □1 552 □3 □4 □Municipality 54ind	
OVERALL FACILITY EVAL SYSPECTION COND	LUATION RATING: 3	+ 9 4 49	COMPLIANCE S	TATUS:	□ Non-Compliance Compliance
Name and Location of Fa AMOCO 0 iL CO 2815 FWO IAM	cility Inspected:		Receiving Waters/PO		Permit Effective Date:
Town/City: Whiting, 3	County: Lak	e	Entry Time:	Exit Time:	Permit Expiration Date:
Name(s) of On-Site Represe	ntatives. 1939 9	/	Title(s):		2-28-95 Phone: (ZIF) 473-3740
Peter Beronii				ental Engr	Fax: () 34/7
NATALIE Grim				Ntal ENGR	Phone: () - 3 2 76
Steve war Certified Operator:	LYNIAR			2 (OPTIMIZATION	
Davio Olen	,		Number: /4//		5 Eull Time Deart Time
Name, Address of Responsit				Exp: 6 - 00	(Hours per week:) Phone: (2/C) //72 2///0
COLIN H. J			Title: Whiting !	refixery vit leaper	Phone: (219) 473-3149
	_	rey	Contacted:	EYes STAN SO	
57AN SORK.	els, Health, Sal	Areas Evaluated I	During Inspection	□No	
	(S=Satisfactory, M=Mar	ginal, U=Unsatisfac	tory, N=Not Evaluate	d, N/A=Not Applicable	
Effluent Receiving Waters Ln	Facility Site		M Flow Measur	rement	N/A Pretreatment
M Permit Expired		Maintenance (4)	\$ Laboratory \$ Self-Monitor	ing Drawn (A)	Other:
N Compliance Schedule		osal FulinerATV		<u> </u>	· //
COMMENTS THE	remit expira	2 d in 19	395 000		3 HEAT LIECTION PLATE
IN 1994 T	1 1998 Amol	o School	Las 1 12	Parioto -	Mixing Zone
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@ There	have been 2	PRO NPI	ES PERM	HLinit	exceedences
IN 1999, Thro	ugh July. Be	oth out	falls ool	and DOZ	were
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The time of	this inspect	TON. OU	tfall oo	I did ha	WE A Brownish
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and The EH	tient was c	IBAR & FI	el of the	bidity an	10 Solids)
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	9-9-99 01				
LODE PREAT	out fall ou	nate Com	INEXE S	neens w	tre not
9-9-99, and No	ONE ALCONSED A	or the h	ast few i	months a	t outfall 004.
Name(s) and Signature(s)		Date:	_	Office/Telephon	e: 219 881-6712
MIZHAPI K	155	9	-9-99	IDEM	3171233-2494
Received By:		Date:		Referred to:	
Section Chief:	20			<u> </u>	
11 2 2 d		Date:	12/00	For: □ Foll	ow-up 🗆 Enforcement
DISTRIBUTION: White - Public File; Ca	anary - Site Copy; Pink - Inspector; Gol	denrod - Supervisor (×//77		

KEY TO REPORT

INSPECTION TYPE:

R: RECONNAISSANCE C: **COMPLIANCE EVALUATION**

l: **INDUSTRIAL USER INSPECTION W/PRETREATMENT**

INSPECTOR:

S: STATE R: **EPA REGIONAL**

FACILITY TYPE CODE:

SULL BERTH

MUNICIPALITY 1: 2:

AGRICULTURAL **FEDERAL**

OVERALL FACILITY EVALUATION RATING:

(COMPLIANCE)

SATISFACTORY MARGINAL

(BORDERLINE) (NON COMPLIANCE) UNSATISFACTORY

5/...

V.

OFFICE OF WATER MANAGEMENT - INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WASTEWATER TREATMENT PLANT INSPECTION FORM

NPDES PERMIT # _	IN 0000 108	
MUNICIPALITY	AMOCO	Person Interviewed

COMMENTS and/or RECOMMENDATIONS:

- The From measurement at Ortfall DOI is NOT

 MEASURED by a SPRANTE from Meter dedicated to This

 Outfall. The From Value is calculated by measuring

 The Influent to the treatment Facility and

 Subtracting out measured from for various "mask

 Streams".* The NPDES PRIMIT specifies that the

 discharge from be measured can timensly at outfall

 DOI. It is recommedded that Amoro install

 A from Meter which will continuously measure

 the actual discharge from From outfall DOI.

 *(see attacked carcilation shelt for 9.7.99).

 When conducting from measurement calibrations

 It is recommended that The meters be tested

 Of 25% increments of total Scale (0,25%,50%,70%

 and 100%). This will assure Accuracy Throughout

 The expected flow name.

OFFICE OF WATER MANAGEMENT-INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WASTEWATER TREATMENT PLANT INSPECTION FORM

NPDES PERMIT #
-MUNICIPALITY Amoco Person Interviewed
COMMENTS and/or RECOMMENDATIONS:
E) There are NO thermal limitations for outfall 001
and the temperature limit for outfall 002 is not
a temperature limit, but a heat ejection partie
Don'to from The live to to act is:
2.0 × 109 BTU/ hr (Daily MAX) Cassimed Disprise
2.0 × 109 BTU/hr (Daily MAX) CASSIMED DESPITED + 1.7 × 109 BTU/hr (MONTHLY AVA)
Amoro carculates the BTU/ha nate by neconding
The intale and discharge temperatures 12 x Daily
and ther osing the intake Average temperature
and discharge Average temperature to calculate the
Ocily Average BTU/ha pare. A moco has complied
with these limitations, but The Actual discharge temperatures at both outfalls ool and ook are relatively high.
Outfall out was 1010F and outfall out was 1020F on
9-7-99.

Inspector:



Satisfactory
☐ Marginal
☐ Unsatisfactor

Indiana Department of Environmental Management Office of Water Management 105 S. Meridian Street Indianapolis, Indiana 46225

			Name of inspector	e1 Kugs
Name of company				
AMOCO OIL			Date (month, day, year	-99
Address of company (street and	,,,,,,,,	. 1		
City	County ,	D	Talaska	
Whiting	La	Kl	Telephone number	473-5417
ZIP code 46394	lame of responsible official	T. Maclean		
Name(s) of individual(s) contacts	ON'S 149ta		c bour: c	- A 1 6 4
Permit number	lame of receiving stream and/or POTW	ne Gr. Mil	· Cryv , row	MINTAL TRGA)
	Call Michig	gar ethsc		
CATA OF Wh.	ting & Hamro	Name of certified		
Number of employees	Class	N	Number	
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Type of inspection ☐ O & M	ÇEI □ CSI	☐ Follow-up ☐ Pi	retreatment	
Other (specify)			on out more	
□ Products 9AS €	line heating full	. Jetfael, dre	eselful, Asphal	f and Coke
Outfall	Water Use	Treatment * (See below)	July Waste Flow 99	Appearance
00/	All fralss+ storme	*(see below)	18.0 MbD	Brownigh ir cora, CLBAR, NO 0.7154004
002	All NON-Contact		105 MUT	clear, No oil shee
003	Stormwaren	on ward separator		NO Discharge
004	Stonmunter		NO FIOW DATA	NO Discharge
Other water uses	Grit Muskal,		General to Lond	
Brit AVI	scudge, clarit	ozation, filtrati	ron	very normans
		EFFLUENT DATA mg / 1 / (lb/d)		
Parameter	See	ATTOCHON ()	NIM AM DE 11	olatrons
Permit Limits		10000 DO		2/4/10/10
Daily Max.	+01	1991, 1998	3 + 1999 a	70
Daily Avg.	600	of TUTY	1999 MB	9-
Actual Data	27			
Daily Max.	The	WATER Grat	ity DATA For	Siftember
Daily Avg.			•	·
Period covering:		,		
Comments				
			•	-

NPDES DERMITEMIT

FACILITY HWOLD NPDES PERMIT NO.

LIST OF NPDES PERMIT LIMIT VIOLATIONS 1999

PARAMETER REPORTED VALUE PERMIT CIMIT PER DEVIATION	CONTROL OF THE PROPERTY OF THE																					
																						LONS:
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Report Prepared by Michael Kuss

MA - Monthly Average WA - Weekly Average

DMx - Daily Maximum DMn - Daily Minimum

FACILITY HOMOCO 0'L CO.

1998 LIST OF NPDES PERMIT LIMIT VIOLATIONS

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Jan	ヾ			Herecomment of the selection of the comment of the composition of the	ss inchesional Miles of the Park Barreshour (NAMA) (L. Park bounder (NAMA) (L. Park Barreshour (NAMA)		
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5	40/0						
* MAR	3-9-98	OMS	100	800	P/91 7276	8164 1616	
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	3-9-68	DMX	100	COD	63782 1818	61 41 LZ#85	
	3-10-98	DMK	100	Q07	P191 62451		
	3-6-68	Onx	100	227	P191 204.94	P/71 7695	
	3-10-98	OMK	100	725	•	11	
	3-96	MA	8	227	1191 8699	2646 1310	
	3-9-93	OMX	90/	0+6	P/91 501-2	2600 1614	
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SQ.	NONE				(See d	600	
100	man		8				
101	AL NUMBER O	TOTAL NUMBER OF VIOLATIONS:				DMx - Daily Maximum MA - N	MA - Monthly Averses
		9					Section of the sectio

Title ガルバル、 もんられ ー エンビル DMn - Daily Minimum WA - Weekly Average Report Prepared by Michael Kuss

CO-INIMPLAY/PARION

				SUMMARY		FACILITY HMOW	FAMOLO	
	3		SERMIT	LIMIT	OF NPDES PERMIT LIMIT VIOLATIONS	NPDES PERMIT No	MIT NO. IN OUCO!	2
		LIST OF	1 F NPDES P	1997 PERMIT LIMIT \	/IOLATIONS			
MONINE	S)HIVO (S)			SIMMIN MATERIA MOJUHANA IN IN MATANA		PARAMETER REPORTEDIVATUE		
FEB	NONE							
MAR	3-9-97		ΣwX	700	710	1.6	9	
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	,							
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355	1-11-97	2,0	Shopal	200	MIN CHON CO.	10 000 40		
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Set	10-1097	Ori	Sheer	200	aported at eas, or		Lalle Mithram	
Nov	11-22-97	oit	Sheen	200	aported at out.	Ø	V Latte Michigan	
Dec	Nowe							
				d.				

MA - Monthly Average WA - Weekly Average + PLUS FIRE(S) Reported Cit Sheems DMX-Daily Maximum
DMn-Daily Minimum

FOEM OUM

Title SNUT. SMLA.

1505

Report Prepared by MULh,

TOTAL NUMBER OF VIOLATIONS:



CERTIFIED MAIL RETURN RECEIPT REQUESTED

March 31, 1998

Mr. Stephen Judith
Indiana Department of Environmental Management
Office of Enforcement
Water Enforcement Section
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46206-6015

Amoco Petroleum Products Refining Business Group Whiting Refinery

2815 Indianapolis Boulevard Post Office Box 710 Whiting Indiana 46394-0710 219-473-7700

<u>Upset Conditions Resulting from March 9 Power Outage</u>

On March 9, 1998 the Amoco Whiting Refinery and the refinery's wastewater treatment plant (WWTP) experienced a complete power outage as a result of the severe winter storm and ensuing NIPSCO area-wide power outage. As a direct result of the power outage, the WWTP experienced an upset condition, resulting in NPDES permit exceedances. The following information documents these issues.

Description of Power Outage

A severe winter storm with extremely high winds, wef snow and ice, impacted Northwest Indiana on March 9, 1998. That morning, the NIPSCO Electrical Grid for Northwest Indiana experienced power outages. This grid supplies Amoco and is considered to be a highly reliable system. However at 8:39am, weather conditions caused NIPSCO's Sheffield substation connection to the refinery to be lost. Normally the loss of this connection would not have presented an immediate problem since a second electrical connection from NIPSCO's Marktown substation to the refinery is also in place. Yet, sixteen seconds after losing the Sheffield connection, NIPSCO's electric generation source to the Marktown substation was also lost. Thus, the supply of electrical power from NIPSCO to the refinery was completely lost.

Since Amoco's internal power station cannot produce all the electricity the refinery requires, the refinery's electrical load-shed system automatically started tripping process unit breakers, according to a prioritized schedule, shutting down many of the refinery's process units. The WWTP is considered high priority and is not on this load-shed list; it receives power as long as the power station is operational.

However, at 8:52am, when the Amoco power station could not handle the remaining load, the WWTP was among the units that lost electrical power.

Effect of Power Outage on WWTP Operations.

The loss of power to the WWTP resulted in the following equipment outages (please refer to the attached WWTP flow diagram):

- All pumps in the pretreatment section of the WWTP were unoperable. Incoming flow built up in the the oil-water separator and air flotation unit.
- Due to loss of compressed air, the air flotation unit could not remove dissolved oil and suspended solids. This allowed unusually high loadings of dissolved oil and grease and suspended solids to the aeration tanks when flow was reestablished.
- Surface aerators lost power. The residual dissolved oxygen that is normally
 maintained in the aeration tanks was quickly consumed, within minutes of the
 power outage. This led to near-anaerobic conditions in the aeration tanks while
 the aerators were shut down.
- The clarifier recycle pumps were unoperable.
- The final filter backwash pumps were unoperable.
- Due to blizzard, sub-freezing conditions and the loss of steam tracing, which is used for freeze protection, many critical indicators and controllers were frozen.

Recovery of WWTP Operations on March 9

As discussed above, all refinery process units, including the WWTP, were shut down due to the power outage. The NIPSCO Marktown substation connection to the refinery was reestablished first and the WWTP's electrical power supply was reestablished by approximately 10:30am, resulting in a power outage of approximately 90 minutes. Although the WWTP was the first refinery unit to be restored to operation, many refinery process units were shut down for several days and some as long as 10 days.

WWTP personnel were able to restore most major equipment operation by early afternoon. This included pumps required to reestablish flow through the plant, including the clarifier recycle pumps and final filter backwash pumps. The aeration tank surface aerators were reactivated.

Steam and air supply remained out-of-service throughout the refinery until later in the day. Given the blizzard and sub-freezing conditions, instrumentation froze and had to be manually thawed with steam hoses and restarted. Due to these instrumentation problems, flow to the storm surge and equalization tanks was not reestablished until later in the day.

Until the air supply was reestablished later in the afternoon, the air flotation unit was not effective in removing suspended solids and dissolved oil from the

wastewater, resulting in very high loadings of suspended solids and dissolved oil and grease to the aeration tanks.

Summary of Exceedances

Loss of power to the WWTP resulted in an upset condition. As discussed, unusually high loadings of suspended solids and dissolved oil to the aeration tanks, combined with the earlier period of anaerobic conditions (while the aerators were shut down), resulted in highly-stressed activated sludge. This resulted in severe foaming in the aeration tanks and clarifiers.

Although the clarifier beds were maintained during this incident, some of the foaming activated sludge did not sufficiently settle in the clarifiers. This condition overwhelmed the final filters and resulted in high suspended solids levels in the effluent. Final filters were backwashed one every 20 minutes (the maximum rate possible), as opposed to the normal frequency of one every 60-90 minutes. This demonstrates that operational measures available to the WWTP to mitigate the extent of the exceedances were implemented.

In addition, high loadings of dissolved oil and grease to the activated sludge reactors led to high levels in the effluent. The combination of high levels of both suspended solids (TSS) and oil and grease (O&G) led to high levels of both chemical oxygen demand (COD) and biological oxygen demand (BOD) in the effluent. The daily maximum permit limits for TSS, O&G, COD and BOD were exceeded on March 9. Since the upset condition continued into March 10, these limits were also exceeded on March 10. Notifications of these exceedances were made to IDEM, Office of Enforcement. Below is a summary of NPDES permit exceedances for Outfall 001 (WWTP effluent) on March 9 and 10.

as pounds/day	TSS	O&G	COD	BOD
March 9	46,402	2,705	63,782	9,674
March 10	61,159	2,723	75,429	19,833
March 11	1,348	749	7,040	1,168
Daily Maximum Limit	5,694	2,600	58,427	8,164

Since Wednesday, March 11, all NPDES daily maximum permit limits for Outfall 001 have been met. In fact, WWTP operating data indicate that the effluent quality was much improved by noon on Tuesday, March 10. Given the magnitude of equipment outages on March 9 and the subsequent upset conditions, this demonstrates that effective measures were taken by WWTP personnel to return the WWTP to a highly functional state in an expedited manner.

Although not an exceedance of a daily maximum permit limit, there was also an unsightly appearance at Outfall 001 on March 17. A film was observed within 25 feet of the outfall and discoloration within 100 feet. IDEM, Office of Enforcement, was notified of this condition as well. This outfall condition cleared up over the next several days. As mentioned earlier, a foam layer had built up on top of the clarifiers during the upset condition. This foam slowly sloughed-off the clarifiers; however, the filters were not completely effective in removing it.

There was one exceedance on March 11 for O&G for Outfall 002, the once through cooling water (OTCW) effluent. This was also related to the power outage. Heat exchangers on the OTCW system were kept as warm as possible during the shut-down period with OTCW. However, heat exchanger operating conditions were very different during the shut-down than normal operating conditions, especially pressure and temperature conditions. This led to a small heat exchanger leak. Operating conditions were adjusted and the leak was stopped. Monitoring of heat exchanger systems throughout the refinery was enhanced throughout the refinery start-up period. There were no further Outfall 002 exceedances.

NPDES Permit Definition of "Upset"

The permit exceedances discussed above were unintentional and temporary and were due to factors beyond the reasonable control of the permittee. The WWTP is well-operated, well-maintained, and designed to readily meet its NPDES permit conditions. This is demonstrated by the refinery's excellent NPDES permit record. No operational errors contributed to the exceedances.

In accordance with NPDES Permit No. IN0000108 (Part II, Section B, Paragraph 3.C), the following addresses conditions necessary to demonstrate an upset.

- 1. The cause of the upset was identified as the NIPSCO power outage, which was caused by severe and unusual winter storm weather conditions.
- 2. The WWTP was at the time of the upset being operated according to proper operation and maintenance procedures.
- 3. The refinery and the WWTP took all reasonable steps, including the following, to minimize any adverse impact to the environment resulting from the upset.

First, full operation of the WWTP was achieved as quickly as possible. The WWTP was first refinery unit to regain power. In fact, most of refinery units remained out of service for up to several days afterward, some up to 10 days. In spite of highly adverse weather conditions, instrumentation freeze-ups and other difficulties, the WWTP was running by early afternoon and was fully operational by late afternoon of March 9.

Second, WWTP operational measures were taken to minimize the impact of the upset. At no time during the upset was wastewater flow bypassed around any of the WWTP operating units. Surge capacity was used. Final filter backwash frequency was increased to the maximum rate. Clarifier beds were maintained.

Third, in order to reduce wastewater flow to the WWTP, the watershedding system was activated: all wellpoint systems were temporarily shutdown; tank waterdraws were delayed; cooling tower blow-downs were blocked in; desalter brine and mudwashes and other refinery process related flows were not in service for several days.

Fourth, in order to reduce slop oil flow to the WWTP's oil-water separator several vac trucks were operated within the refinery around the clock for several days.

Fifth, as the refinery process units were brought back in service, measures were taken to mitigate any impact on WWTP operations. As a result, the WWTP was able to meet its permit limits with its NPDES permit even though essentially the entire refinery had to be brought back in service.

Summary

As a direct result of the NIPSCO power outage on March 9, which was caused by severe and unusual winter storm weather conditions, the WWTP experienced an upset condition. Daily maximum NPDES permit limits for Outfall 001 (WWTP effluent) were exceeded on March 9 and March 10. Full operation of the WWTP was restored by the afternoon of March 9. Outfall 001 maximum daily permit limits were met March 11. Also upset-related, Outfall 002 (once through cooling water) experienced an exceedance on March 11, and Outfall 001 had an unsightly appearance on March 17.

If you have any questions regarding the upset condition described above, or any other issue, please call me at 219-473-3740.

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Attachment

Wastewater Treatment Plant - Water Flow Diagram Amoco Oil Company - Whiting Refinery

